

Certificate of Analysis

Dr. Ehrenstorfer

Reference Materials for Residue Analysis

Product Identification

12881000 Diphenhydramine hydrochloride

CA N-(2-Diphenylmethoxyethyl)-N,N-dimethylamine hydrochloride

IUPAC 2-Diphenylmethoxy-N,N-dimethylethylamine hydrochloride

Formula C₁₇H₂₁NO · HCl

Mol.Weight 291.82

CAS No. 147-24-0

Expiry Date 09.08.2017

Lot Number 30809

Store at 20 °C ±4 °C

Please note: The expiry date is valid under recommended storage conditions only.

Toxicological Data		Physical Data	
		Phase crystalline solid	Vapour pressure NA at °C
		Color colourless	Solubility in water 1000 g/l at 23 °C
		Melt.Range 168.8 °C	Boiling Range (lit.)
R Code 22			
S Code 36			
LD50 (Rats female/male in mg/kg) 500			
Analytical Data			
Detection: HPLC/DAD		Method Details:	
Column: ReproSil 100 C18 5µ 250x3		Acetonitrile:H ₂ O+0,5% H ₃ PO ₄ 2:1	
Inj.-Vol.: 10.00 µl			
Flow: 1.0 ml/min			
Ret.-Time: 1.38 min.			
Identity: RT, UV			
Comment Purity was determined by external standard method.			
Water Content 0,0 %		Determined by Karl-Fischer Titration	
Det. Purity 99,9 %		Tolerance/Uncertainty +/- 0,5 %	
The uncertainty/tolerance of this standard is calculated in accordance with the EURACHEM/CITAC Guide - Quantifying Uncertainty in Analytical Measurement - Second Edition. The uncertainty given is the expanded combined uncertainty and represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The expanded uncertainty is U which is U _c (y)*K, where K is the coverage factor at the 95% confidence level (K=2). The expanded uncertainty is based on the combination of uncertainties associated with each individual operation involved in the preparation of this product.			

Certified on 19.09.2013

by A. Storr

The Laboratory Labor Dr. Ehrenstorfer-Schäfers is accredited by DAkkS as indicated by the Accreditation Number D-RM-14174-01 has shown competence based on ISO Guide 34:2009 with relevant parts of DIN EN ISO/IEC 17025:2005 for production of certified reference materials in form of organic pure substances and in form of single and multi-component solutions organic pure substances.

Labor Dr. Ehrenstorfer-Schäfers · Bgm.-Schlosser-Str. 6 A · 86199 Augsburg · Germany

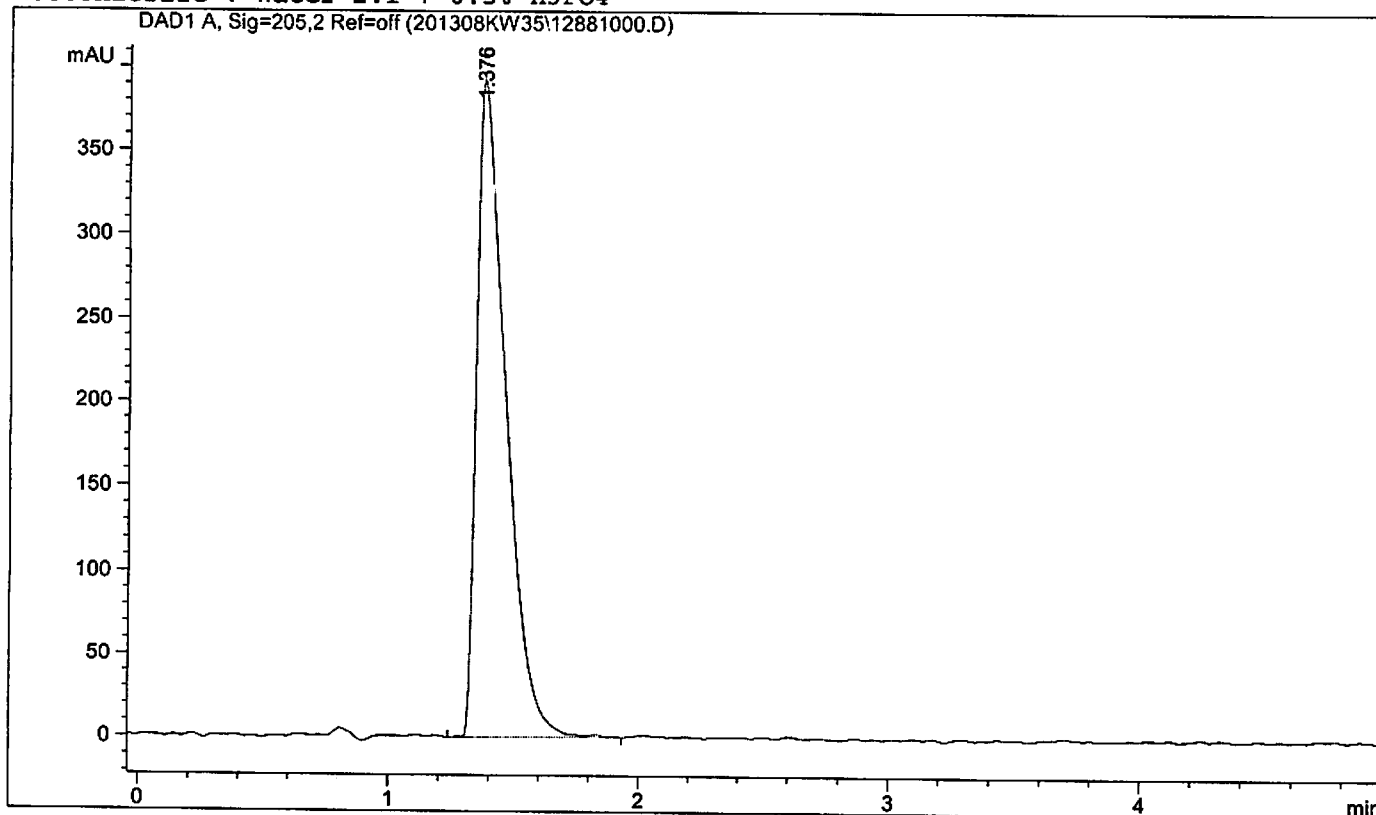
Phone +49 821 906080 · Fax +49 821 9060888 · info@analytical-standards.com

The warranty for this product is limited to the purchasing price of this product.

28.8.13
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Diphenhydramine hydrochloride

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Injection Date : 28.08.2013 05:16:25 Seq. Line : 56
Sample Name : 30826AL 30809 Location : Vial 47
Acq. Operator : DAD1_Admin Inj : 1
Acq. Instrument : Instrument 1 Inj Volume : 10 µl
Acq. Method : D:\CHEM32\1\METHODS\21PK.M
Last changed : 27.03.2013 08:24:16 by DAD1_Admin
Analysis Method : C:\CHEM32\1\METHODS\21PK.M
Last changed : 27.03.2013 08:24:16 by DAD1_Admin
Acetonitrile : Water 2:1 + 0.5% H3PO4
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Area Percent Report
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Sorted By : Retention Time
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=205,2 Ref=off

Peak #	RetTime [min]	Sig	Type	Area [mAU*s]	Height [mAU]	Area %
1	1.376	1	BB	3199.99072	393.51703	100.0000

Totals : 3199.99072 393.51703

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*** End of Report ***
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